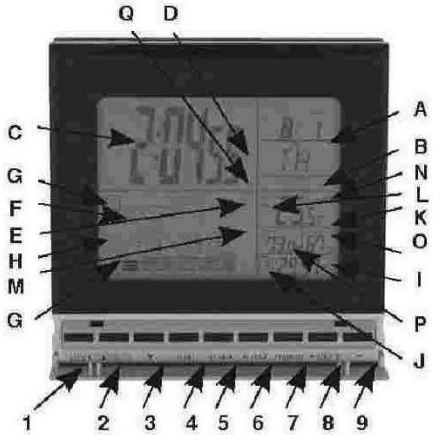
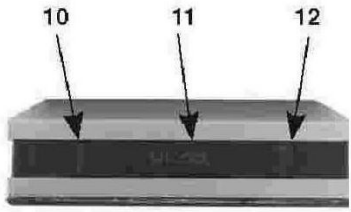
Thermor

# Indoor/Outdoor
# Deluxe Weather Station with Forecasting
# Instruction Manual


IN114





**A. CALENDAR WINDOW**
Display the current date, month and day of the week
**B. MOONPHASE WINDOW**
Display the current moon phase
**C. TIME WINDOW**
Display the current time of hour, minute and second
**D. ALARM ON ICON**
Display the current time of hour, minute and second
**E. LOW BATTERY ICON**
Lights up and flashes when the battery level is low.
**F. WEATHER FORECAST WINDOW**
Displays the weather forecast pattern
**G. PRESSURE TREND ARROWS**
Indicates the trends of pressure changes
**H. ATMOSPHERIC PRESSURE BAR CHART WINDOW**
Display the atmospheric pressure trend bar chart of the last 12 hours
**I. PRESSURE UNIT IN INHG**
Display pressure in unit in mb/hPa
**J. PRESSURE HOUR HISTORY INDICATOR**
Display the pressure history of previous hours
**K. OUTDOOR TEMPERATURE WINDOW**
Display the current outdoor temperature
**L. CHANNEL INDICATED**
Display Channel Number
**M. SNOOZE ON ICON**
When displayed, alarm may be shut off for 5 minute intervals
**N. TEMP TREND**
Indicates trend of temperature
**O. Relative Humidity Window**
Displays the indoor relative humidity
**P. INDOOR TEMPERATURE WINDOW**
Displays the current indoor temperature

**1. CLOCK – CLOCK AND CALENDAR SETTING MODE**
Enter clock and calendar setting mode
**2. UP BUTTON, C/F SELECTION FOR OUTDOOR TEMPERATURE**
Increase the value during clock setting mode and change C/F for outdoor temperature during normal mode.
**3. DOWN BUTTON**
Decrease the value during clock setting mode
**4. [ALERT] BUTTON**
Enter Temperature Alert setting mode
**5. ALARM SETTING BUTTON**
Enter Alarm setting mode
**6. [AL/SNZ] – ALARM ON/OFF AND [SNOOZE] ON/OFF BUTTON**
Setting Alarm status
**7. [PRESSURE] – BUTTON**
Enter Barometric pressure setting mode
**8. [+/C/F/] [- C/F] SELECTION BUTTON**
C/F selection for indoor temp and increasing the value during Pressure setting mode
**9. [ -] BUTTON**
Decrease the value during the Pressure setting mode
**10. [HISTORY] – BUTTON**
View the barometric reading for the past 12 hours
**11. SNOOZE BUTTON**
Activates the snooze function during alarm
**12. MEMORY – BUTTON**
Displays Max/Min information for indoor temp, relative humidity and Barometric pressure
**13. CHANNEL – BUTTON**
Hold the Channel button to reset all 3 remote temperatures
**14. MAX/MIN – BUTTON**
Displays max/min outdoor temp.

**Introduction**

Thank you for purchasing the IN114 Deluxe Weather Station with Forecasting. Developed with state-of-the-art technology and digital electronics, this precision device provides instant readouts for time, indoor temperature, outdoor temperature, humidity, barometric pressure, and weather forecast icons.

**Battery Installation**

Release battery compartment panel using the black rectangle push button. Insert 2 AA batteries according to polarity indicated. Press the reset button to initiate the internal clock setting and then replace cover.

**Note:** Replace batteries when the BATTERY LOW INDICATOR lights up.

**Remote Sensor:**

1. Remove the battery cover found on the back of the remote sensor using a flat-head screwdriver.
2. Insert one lithium battery (CR2032- 3V x 1- provided) with the positive (+) pole facing upwards.
3. Replace the battery cover and secure it to the remote sensor, using the screw-driver.

**Note:** Make sure that the rubber seal provided is placed around the battery cover BEFORE replacing the cover.

Once the main unit and the remote sensor batteries have been installed, the outdoor temperature will be displayed on the main unit within two minutes. If the outdoor temperature does not appear after two minutes, remove the batteries and begin from step 1.

**Setting Clock and Calendar**

1. Press and hold the [CLOCK] button for 2 seconds to enter clock/calendar mode
2. The setting sequence for the clock calendar mode is 12/24 hour, language, hour, minute, second, year, month, date.
3. Use the [▲/C/F] and [▼] button to adjust setting values and then press [Clock] button to confirm each setting

**Multi Language Day of the Week**

The display language for the day of the week is selected in the Clock Calendar mode and will flash in the "day of week" box. The Language format is as follow:

EN-English GE-German FR-French IT-Italian SP-Spanish

**Alarm Setting**

1. Press and hold the [ALARM] button for 2 seconds to enter daily alarm setting
2. When in Alarm time mode 'AL' will flash beside time.
3. Use the [_/C/F] and [_] button to adjust the hour and minute settings after each setting, press [ALARM] button to confirm each setting.

**Activating Daily Alarm and Snooze Function**

1. To activate alarm press the [AL/SNZ] button once and Alarm icon "🔔" will appear beside the time. Alarm will sound at set time.
2. When alarm sounds it will beep for one minute increasing from one beep per second to constant beeps.
3. If the "🔔" is displayed on screen alarm is set and will sound at programmed time. In order to use the snooze function both the alarm icon and snooze icon "Z$^{ZZ}$" must both be displayed beside the time before the alarm sounds
4. When the alarm sounds you have 2 options.

a. To activate snooze function press the [SNOOZE] button on top of the unit. Alarm will sound again in 5 minutes.

b. To turn off alarm completely press the [AL/SNZ] button until both alarm "🔔" and snooze "Z$^{ZZ}$" icons disappear.

**Note:** The 5 minute snooze alarm will repeat as many times as desired as long as long as the [SNOOZE] button is pressed after each alarm sounds. In order to turn alarm off the [AL/SNZ] button must be pressed until all alarm icons disappear.

**To View the Current Alarm Time Settings**

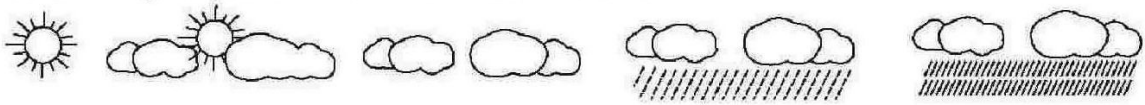
1. Press ALARM button to display the current alarm time setting

**Moon Phase**

The moon phases are displayed on the screen and show eight phases from new moon to waning crescent.

**Weather Forecast**

This unit is capable of detecting atmospheric pressure changes to predict the weather for the forthcoming 12 hours. The effective range covers an area of 30 to 50 km. The accuracy of a general pressure-based weather forecast is about 70-75%, and therefore, cannot be held responsible for any inconveniences so caused by an inaccurate one. The weather forecast is meant for the next 12 hours. It may not necessarily reflect the current weather situation.




**Atmospheric Pressure Bar Chart**

The Atmospheric pressure bar chart records the atmospheric changes for the past 12 hours. The atmospheric pressure bar chart can be displayed in mb/hPa or inHg. To switch between the 2 units of measurement press the [PRESSURE] button.

**Atmospheric Pressure**

The Current atmospheric pressure is shown on the atmospheric pressure window. If you want to know the pressure history for a particular hour during the past 12

hours, press the [MEMORY] button. Each press on the button will go back by one hour. If you hold down the [MEMORY] button the search will increase rapidly. Use the [Pressure] button to switch between mb/hPa and inHg. The pressure measuring range is: 795 – 1050 mb/hPa (23.5 – 31.0 inHg).

**Initiation for Weather Forecast and Barometric Pressure**

The barometer display on this unit will differ from local sources (TV, radio, Internet, etc.). This is because barometric pressure quoted in these types of mediums is "barometric pressure adjusted to sea level," which is theoretical atmospheric pressure that accounts for decreasing air pressure with elevation. Air pressure decreases 1.0 inHg for every 1000 feet you go up in elevation. Consequently, the air pressure at the top of a mountain is considerably less than at sea level. To account for this difference, tune into your local weather station via television, radio, or internet to determine the barometric pressure for your area. To properly set the unit press and hold the [PRESSURE] button until the mb/hPa or inHg flashes. Press the [+/C/F] or the [-] button to select desired unit of measurement and then [PRESSURE] button to confirm and enter into barometric pressure setting mode. Press the [+/C/F] or the [-] button to input the actual barometric pressure determined from your local weather station. Press the [PRESSURE] button key to confirm the barometric pressure and enter the weather icon setting. Press the [+/C/F] or the [-] button to select icon that most closely resembles the current weather. Press [PRESSURE] button again to confirm and return to normal mode.

**Note:** Most weather networks display barometric pressure in kPa. This unit measures pressure in mb/hPa and inHg. It is easiest to convert kPa to inHg and then once inputted as inHg the unit will automatically show the pressure in both units. Use the below formula to convert pressure in kPa to pressure in inHg

inHg = kPa x 0.295
eg.
101.5 kPa = 29.94 inHg (101.5 x 0.295)

**Indoor Thermometer Function**

1. A built in sensor measures temperature and shows the measured value on the display. The readout from the temperature sensor can also be switched between Celsius (°C) and Fahrenheit (°F).
2. Press the [+/°C/°F] button to select either Celsius (°C) or Fahrenheit (°F).
3. The sensor is capable °F measuring temperatures between -19.5°C to 70.0°C (-3°F to 158°F).

**Outdoor Thermometer Function**

1. One outdoor remote sensor and probe were provided with this unit
2. The channel box on the unit, displays a number 1 when it is receiving transmissions from the sensor.
3. The sensor is capable of measuring temperatures ranging within -19.5°C to 60.0°C (-3°F to 140°F).

**Indoor Relative**

1. A built in sensor measures humidity and shows the measured value on the display.
2. The unit is capable of measuring relative humidity ranging within 25% RH to 95% RH

**Maximum and Minimum**

1. The max/min record function automatically stores the maximum and minimum value for the outdoor temperature in the memory.
2. To display them, press the [HISTORY] button to rotate through the maximum and minimum current values. The respective MAX or MIN indicator will be displayed.
3. To clear the memory, hold down the [HISTORY] button for 3 seconds. The maximum and minimum values for temperature will be erased.

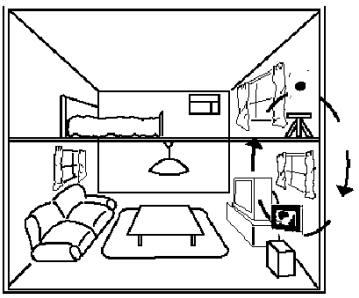
| **SPECIFICATIONS** | |
|---|---|
| CLOCK | +/- 30 seconds a month at normal operating temperature |
| CALENDAR SYSTEM | Auto Calendar preprogrammed from 2000 – 2050 |
| BATTERY LIFE | Approximately 1 year |
| BATTERY | Two AA size batteries (1.5V) |

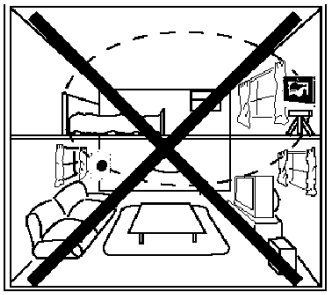
**Transmitter Installation**

To prevent temperature interference, place the transmitter where it is away from direct sunlight, air conditioner and heater vent.
To maintain good operating condition, don't put the transmitter over 60°C or under -20°C.

**For Proper Data Transmission**

- In open air, keep the transmitter and weather station within 30 meters of each other.
- If obstacles such as concrete walls, home appliances or metal objects stand in the path between the transmitter and weather station the maximum distance should be minimized to no more then 5 meters.
- For best results place the main unit and remote sensor as close together as possible and with the least amount of transmission interference (e.g. place the main unit and remote sensor at the same side of the house, and position both units close to windows).
- Position the remote sensor higher then the main unit.
- Prevent hanging the main unit or remote sensor on or between concrete walls or metal surfaces.
- Avoid extreme temperatures, above 60°C (140°F) or below -20°C (-40°F).





**Unit Installation**

To prevent temperature interference, place the unit where it is away from direct sunlight, air conditioning and heating vents.

For household and office use, place the unit on the table using the provided table stad or near a window using the built in wall hanging slot with a nail.

Do NOT put it on a concrete wall or metal plate or near computers, home appliances as it will seriously shorten the transmission distance.

**Remote Outdoor Temperature**

With the wireless data system, the transmitter will transmit the outdoor temperature to the weather station. If the weather station cannot get the outdoor temperature, please check:

- Is the operating distance out of range? If yes move transmitter and main unit closer together.
- Is the operating temperature out of range? Extreme hot and cold will reduce battery life substantially.
- Battery low? Replace transmitter battery when needed.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

**Warranty**

If this instrument proves to be defective in material or workmanship within one year of purchase, it will be repaired or replaced at our option, without charge, upon receipt of the unit prepaid with $4.00 to cover handling, packaging and return postage.

PLEASE CONTACT THE WEATHER STATION HELPLINE BEFORE SENDING THE UNIT IN FOR REPAIR AT:

**1-800-387-8520**

Please send the defective unit to:

Thermor Ltd.
395 Cochrane Drive
Markham, ON
L3R 9R5

IC NUMBER : 6396A-WSTC